

The SLIM - Heat Interface Unit



The SLIM HIU is possibly the smallest and most efficient DHW generation unit on the market and uses the latest electronic controls to provide instantaneous DHW.

A flow sensor allows the electronics to respond rapidly to changes in DHW flow rate, maintaining steady output temperatures with very little fluctuation.

As with all of our range of electronic HIUs, the SLIM provides two modes of operation which can be selected at commissioning - a Comfort Mode, where the unit keeps itself hot at all times ready for rapid DHW response, or an Economy Mode, where the unit goes cold after one hour of inactivity.

Every 24 hours, the control will bring the domestic hot water plate heat exchanger up to 57 Deg C or more for at least 60 minutes to prevent legionella from growing. This anti-legionella cycle will stop immediately upon a hot water draw off, and resume immediately after. This means it will gradually learn over a few days to function over night.

DHW temperatures and various other parameters are set-up during commissioning and can only be altered by an approved engineer.

The SLIM is encased in an attractive EPP moulded compartmentalised casing. Heat losses are less than 2W, allowing the unit to remain hot for rapid DHW response with minimal drain on the primary supply. There is also an option for an additional steel security casing, with or without landlord securing valve and heat meter.

The SLIM makes use of the latest electronic stepper motor control valve that allows the unit to accurately adjust district flow rates to control DHW temperatures far better than any mechanical system.

The electronic controls also enable the unit to carry out various intelligent functions, such as PC connectivity for set-up and commissioning, district return temperature control, Eco / Comfort DHW modes for continuous or intelligent pre-heat, whilst maintaining minimal return temperatures.

Possibly the best feature of the SLIM is the ability to connect to billing systems and the internet to enable a host of functions never before envisaged. These functions include the ability to provide remote fault diagnostics, reporting, and remote commissioning. *

* Connection to billing systems, and remote diagnostic functions require the optional iHIU electronics package.

Features

- Fully electronic solution with anti-legionella cycle & PC connectivity for set-up and commissioning
- District return temperature control
- Calibrated sensors for fast DHW temperature control
- Eco / Comfort DHW modes for continuous or intelligent pre-heat
- Compact design - 240mm (W) x 420mm (H) x 90mm (D)
- Fully insulated compartmentalised casing
- Stainless steel pipework
- iHIU Intelligent control options
- Optional primary pump kit
- Optional 24V DC version
- Optional security case with integral heat meter, landlord security valve and anti-fraud sealing kit.

Example DHW Capacity at 10-55°C

Model	Capacity (kW)	DHW flow rate (l/m)	Primary Flow °C	Primary Return °C	Required differential pressure primary (kPa)	Primary flow rate (kg/sec)
SLIM	12.5	4	70	19.5	1.3	0.060
	31	10	70	27	20.5	0.178
	56	18	70	33.4	72	0.375
	12.5	4	80	15.7	2	0.048
	31	10	80	22.1	12.5	0.133
	65	20.5	80	29.6	55	0.308

Technical parameters:

Nominal pressure: PN 16
 DH supply temperature: T_{max} = 85°C
 T_{min} = 65°C
 DCW static pressure: P_{min} = 0.5 bar

Expansion vessel size: N/A
 Pipework: Stainless Steel

Heat meter: Fitted external to casing
 Security Valve / DP Valve: Fitted external to casing
 Electrical Supply: 230V (24V Option)

Connections

1 = Domestic Cold Water
 2 = Domestic Hot Water
 3 = Primary Flow
 4 = Primary Return

Connection sizes

1 & 2 = 15mm Compression
 3 & 4 = G3/4" (Internal Thread)

Options

- Additional steel security casing with landlord security valve and heat meter.
- Variety of heat meters*
- Heat meter security fittings
- Primary pump kit*

*These options are fitted external to standard EPP casing, but can be within the steel security casing if specified.

Dimensions and Connections

